



Columbia 5% Sheep Blood Agar Plates (90mm)

Recommended for isolation and cultivation of fastidious organisms..

Product Presentation:

Cat No.	Product description	Pack Size
31010080060	Columbia 5% Sheep Blood Agar Plates	60 Plates

Principle

Peptone provides essential nutrients. Corn starch serves as the energy source and also neutralizes toxic metabolites. Columbia Blood Agar Base is used as a base for media containing blood and for selective media formulations in which different combinations of antimicrobial agents are added as additives. It also promotes typical colonial morphology; better pigment production and more sharply defined hemolytic reaction. Sheep blood permits the detection of hemolysis and also provides heme (X factor), which is required for the growth of many bacteria. However, it is devoid of V factor (Nicotinamide Adenine Dinucleotide) and hence *Haemophilus influenzae*, which needs both X and V factors, will not grow on this medium.

Composition

Ingredients

	Grams / Litre
Pancreatic Digest of casein	10.0
Proteose peptone	5.0
Yeast Extract	5.0
Beef Heart Infusion from 500 g	3.0
Corn Starch	1.0
Sodium Chloride	5.0
Agar	15.0
Defibrinated sterile blood at (45°C-50°)	50 mL

*Formula adjusted, standardized to suit performance parameters

Additional Material Required

Bacteriology Incubator.

Directions

- ✓ Open the sterile pack and remove 5% Columbia Sheep Blood Agar Plate aseptically.
- ✓ Inoculate/streak the plate and Incubate in inverted position as per standard procedure.

Storage and Stability

- ✓ Store between 2°C-8°C to avoid water condensation. Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.
- ✓ Under optimal conditions, the medium has a shelf life of 3 months. Use before expiry mentioned on the label.

FACTORY & OFFICE

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Quality Control

Appearance: Gel with smooth, even surface without any cracks, bubbles and drying or shrinking of media.

Colour and Clarity of Medium: Cherry red coloured opaque medium slightly opalescent gel forms in petridishes.

Quantity of Medium: 25 ± 2 g media in 90 mm petriplate.

pH at 25°C±2°C: 7.3±0.2

Growth Promotion Test: Cultural characteristics observed after an incubation of 24-48 hours at 35°C - 37°C under anaerobic condition.

Cultural Response :

Organism	Type Culture	Growth	Haemolysys	Incubation Temperature	Incubation Period
<i>Streptococcus pyogenes</i>	ATCC 19615	Good	Beta	35°C -37°C	18 Hours
<i>Staphylococcus aureus</i>	ATCC 25923	Good	Beta	35°C -37°C	18 Hours
<i>Staphylococcus aureus</i>	ATCC 6538	Good	Beta	35°C -37°C	18 Hours
<i>Streptococcus pneumoniae</i>	ATCC 6303	Good	Alpha	35°C -37°C	18 Hours

Interpretation of Results

- ✓ After incubation most plates will show an area of confluent growth.
- ✓ Because the streaking procedure is, in effect, a "dilution" technique, diminishing numbers of microorganisms are deposited on the streaked areas. Consequently, one or more of these areas should exhibit isolated colonies of the organisms contained in the specimen.
- ✓ Further, growth of each organism may be semi-quantitatively scored on the basis of growth in each of the streaked areas.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.

User must ensure safe disposal of used or unusable preparation of the products.

Reference

- ✓ Pelczar M. J. Jr., Reid R. D., Chan E. C. S., 1977, Microbiology, 4th Ed., Tata McGraw-Hill Publishing Company Ltd, New Delhi.
- ✓ 1. Fildes P., 1920, Br. J. Exp. Pathol., 1:129.
- ✓ 2. Fildes P., 1921, Br. J. Exp. Pathol., 2:16.

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